

a plurality of intermediate shafts which are equidistantly disposed at a circumference of the externally contacting shaft, and at least one of which is an input shaft; and

an internally contacting cylinder with which the intermediate shafts internally contact, and under free conditions, the externally contacting shaft formed in a hollow cylinder has a diameter which is a little bit larger than a diameter of an imaginary circle which externally contacts with a plurality of intermediate shafts whereby pressing load is created by means of deformation of the hollow cylinder.

3. (Amended) A polishing device according to Claim 2, wherein the internally contacting cylinder is formed in co-axially arranged double hollow rings, and that an inside ring and an outside ring of the double hollow rings are coupled with each other by means of a coupling member.

4. (Amended) A polishing device according to Claim 2, wherein the internally contacting cylinder is coupled with the table by means of at least one of a pin or a key.

5. (Amended) A polishing device according to Claim 2, wherein the internally contacting cylinder is formed in an inner race of the main bearing.

6. (Amended) A polishing device according to Claim 5, wherein the main bearing is formed by two lines of angular ball bearings, and the outer race of the main bearing is integrated with a housing of the polishing device.

7. (Amended) A polishing device according to Claim 2, wherein an electric motor is coupled with the input shaft, and the input shaft is offset more

greatly than a radius of the electric motor from the center of the externally contacting shaft.

8. (Amended) A polishing device having a table connected to a traction drive type reduction gear, which gear comprises:

an externally contacting shaft which is disposed at the center and which serves as an input shaft;

a plurality of intermediate shafts equidistantly disposed at a circumference of the externally contacting shaft;

an internally contacting cylinder with which the intermediate shafts internally contact; and

a carrier which it rotatably supports the intermediate shafts, and [the] output is taken out from one of the carrier or the internally contacting cylinder.

9. (Amended) A polishing device according to Claim 8, wherein the externally contacting shaft is offset from the rotational center of the table, an output shaft coupled to the carrier is disposed on an axis of an externally contacting shaft, and the output shaft is coupled with the table by means of a power transmission member.

10. (Amended) A polishing device according to Claim 9, wherein an electric motor is coupled with the externally contacting shaft which serves as an input shaft.